

DIGITAL PC 5510

Delivering the most advanced levels of manageability and security in a Pentium® II-class PC, the DIGITAL™ PC 5510 was designed for MIS managers looking for a Windows NT®-optimized system that reduces total cost of ownership and extends the life-cycle of an enterprise-class system. Built with leading-edge technology, the DIGITAL PC 5510 delivers the highest levels of performance, reliability, and interoperability, while providing plenty of room for expansion and growth.

TARGET AUDIENCE

- MIS managers looking to maximize investment protection.
- Business users of data- and graphics-intensive applications who are looking for the most advanced features and performance benefits as they make the transition to Windows NT in the networked enterprise.
- High-end users who want the power and manageability features necessary to handle the most demanding business applications.

KEY FEATURES

- Choice of 233MHz, 266MHz, and 300MHz Pentium® II processors.
- Advanced manageability and security with DIGITAL ClientWORKS™.
- Intel 440LX chipset.
- 32MB SDRAM, expandable to 384MB.
- SDRAM system DIMM memory.
- 512KB L2 cache.
- AGP graphics optional.
- Ultra DMA/33-capable EIDE hard disk drives.
- Integrated networking.
- Integrated audio.
- Low-profile and short-tower configurations.
- Year 2000-ready.
- Windows NT 4.0 or Windows® 95 preinstalled.



COMPETITIVE DIFFERENTIATORS

- Integrated features for a network-ready Windows NT environment include: CD-ROM drive (select configurations), 10Base-T/100Base-TX Autosensing Ethernet, 16-bit audio chip and multilevel security.
- Innovative tool-less chassis design for ease of service and upgradability.
- Advanced manageability and security with ClientWORKS:
 - SecureON for secure remote system wake-up.
 - SecureBIOS for firmware tampering prevention.
 - SecureBOX for system box tampering detection.
 - Environmental sensors support.
- Automatic SMART alarming (remote and local):
 - Disk failures (on SMART-enabled hard disks)*.
 - Environmentally hazardous conditions (temperature/voltage).
 - System box tampering (SecureBOX).
 - Unauthorized wake-up attempts (SecureON).

* Windows 95 models only.

Features	DIGITAL™ PC 5510	Compaq Deskpro 4000	HP Kayak XA	IBM PC 300XL	Dell OptiPlex GXa
Processors	233 Pentium® II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II
Chip set	Intel 440LX	Intel 440LX	Intel 440LX	Intel 440FX	Intel 440LX
Enclosure (slots/bays)	Low-profile (3x4) Short-tower (5x6)	Desktop (5x4) Mini-tower (8x5)	Desktop (5x4) Mini-tower (6x6)	Desktop (5x5)	Low-profile (3x3) Desktop (5x4) Mini-tower (7x5)
Standard graphics	Matrox MGA 1164SG (PCI)	Matrox MGA 1064SG	CL 5465 AGP	S3™ Trio 64V2 PCI	ATI Rage Pro AGP
Video RAM std.	2MB SGRAM	2MB SGRAM	4MB Rambus	2MB EDO DRAM	2MB SGRAM
Video RAM max.	6MB SGRAM	4MB SGRAM	6MB Rambus	2MB EDO DRAM	4MB SGRAM
Maximum system memory	384MB	384MB	384MB	384MB	384MB
Memory type	SDRAM DIMMs	SDRAM DIMMs	SDRAM DIMMs	EDO DRAM DIMMs	ECC SDRAM DIMMs
Cache standard/ maximum	512KB/512KB	512KB/512KB	512KB/512KB	512KB/512KB	512KB/512KB
Cache type	Write-back	Write-back	Write-back	Write-back	Write-back
USB port	2 ports	2 ports	2 ports	2 ports	2 ports
CD-ROM	24x max. CD-ROM	24x CD-ROM	24x CD-ROM on select models	16x CD-ROM on select models	12x24 CD-ROM
Audio	16-bit audio Sound Blaster® Pro-compatible	Enhanced Business Pro	16-bit Sound Blaster Pro-compatible	Sound Blaster Pro-compatible	Sound Blaster Pro-compatible
Standard hard disk drive	EIDE Ultra DMA/33: 2.1GB, 3.2GB, 4.0GB; Ultra-Wide SCSI: 4.0GB	EIDE Ultra DMA/33: 2.4GB, 3.2GB	EIDE Ultra DMA/33: 2.5GB, 4.3GB; Ultra-Wide SCSI: 2.1GB, 4.5GB	EIDE PIO mode4: 2.5GB, 4.2GB; Ultra-Wide SCSI: 4.3GB	EIDE Ultra DMA/33: 2.1GB, 3.2GB, 4.3GB; Ultra-Wide SCSI: 2.0GB, 4.0GB
Disk controller	Ultra DMA/33; Ultra-Wide SCSI	Ultra DMA/33	Ultra DMA/33; Ultra-Wide SCSI	EIDE PIO mode4; Ultra-Wide SCSI	Ultra DMA/33; Ultra-Wide SCSI
Networking	10Base-T/100Base-TX with Autosensing	Netelligent 10/100 TX UTP	10/100Base-T with Autosensing	10/100Mbps Ethernet	3Com 10/100Mbps Ethernet
Desktop management	ClientWORKS™ (local & remote DMI viewer)	Intelligent Manageability (local DMI viewer)	HP TopTOOLS (local DMI viewer)	TME 10 NetFinity (local & remote DMI viewer)	Dell Inspector (remote DMI viewer)

Processors

Model/Processor speed/Type/Enclosure:

DIGITAL™ PC 5510 low-profile
 233MHz Pentium® II processor
 266MHz Pentium II processor
 300MHz Pentium II processor
 DIGITAL PC 5510 short-tower
 233MHz Pentium II processor
 266MHz Pentium II processor
 300MHz Pentium II processor

External bus speed: 33MHz PCI
 Internal architecture: 32-bit PCI/16-bit ISA
 Address bus: 32-bit
 Data bus: 64-bit
 Primary cache: 32KB

Processor Socket

Slot 1 connector

System Memory

Included: 32MB SDRAM
 Maximum: 384MB SDRAM
 Speed: 66MHz
 Configuration: Three DIMM sockets
 Upgradable: With 16, 32, 64, and 128MB SDRAM DIMM memory kits

Cache Memory

512KB four-way, set-associative secondary cache standard

Bus Architecture

32-bit PCI/16-bit ISA, 32-bit AGP

BIOS

256KB Flash ROM BIOS, including video BIOS
 Support for Plug and Play BIOS
 Phoenix
 Supports multi-boot for on-board UDMA devices

Graphics

Type: Integrated PCI 64-bit graphics controller with 2-D/3-D graphics acceleration;
 optional AGP card
 Graphics memory: 2MB SGRAM standard, upgradable to 6MB
 Supports up to 1600 x 1200 @ 75Hz

Diskette Drive

3.5" 1.44MB diskette drive

CD-ROM Drive

5.25" 24x max. EIDE (select models)

Audio Features

Integrated Sound Blaster® Pro-compatible 16-bit stereo-quality chip
 Full-duplex stereo on audio ports
 Internal speaker
 Mixer integration
 Headphones in/microphone in on front
 Line in/line out on rear

Networking Features

Integrated 32-bit PCI DIGITAL 21143 Ethernet chip
 10Base-T/100Base-TX Autosensing Ethernet standard
 10Base-5/AUI (optional)
 10Base-2 BNC (optional)
 Ability to disable in software (BIOS)

Slots

Low-profile
 Total: 3
 PCI: 1
 ISA: 1
 PCI/ISA: 1
 Short-tower
 Total: 5
 PCI: 2
 ISA: 2
 PCI/ISA: 1

Bays

Low-profile: 4 total
 Front-accessible:
 1 3.5" slim-height (1.44MB diskette drive installed)
 2 5.25" half-height (CD-ROM drive installed on select models)
 Internal:
 1 3.5" slim-height
 Short-tower: 6 total
 Front-accessible:
 1 3.5" slim-height (1.44MB diskette drive installed)
 3 5.25" half-height (CD-ROM drive installed on select models)
 Internal:
 2 3.5" slim-height

External Ports

Enhanced parallel (ECP/EPP):
 1 D-type female 25-pin
 High-speed 16550-compatible serial:
 1 D-type male 9-pin
 Universal Serial Bus (USB):
 2 USB ports
 VGA graphics:
 1 D-type female 15-pin
 AGP port:
 optional
 Keyboard:
 1 PS/2-compatible 6-pin mini-DIN
 Mouse:
 1 PS/2-compatible 6-pin mini-DIN
 Audio:
 2 jacks (line in/stereo out)
 1 microphone
 1 headphone connection
 Ethernet:
 1 10Base-T/100Base-TX RJ45 connector

Power Supply

Low-profile:
 145W (230/115 VAC) switch-selectable
 Short-tower:
 200W (230/115 VAC) switch-selectable

Dimensions

Low-profile:		
Height:	4.2"	105.7mm
Width:	16.5"	419.1mm
Depth:	17.75"	450.8mm
Weight:	31.2 lb	14.1kg
Short-tower:		
Height:	16.0"	406.4mm
Width:	8.5"	215.9mm
Depth:	17.5"	444.5mm
Weight:	33.6 lb	15.2kg

Multilevel Security and Manageability

SecureON for secure remote system wake-up
 SecureBIOS for firmware tampering prevention
 SecureBOX for system box tampering detection
 Built-in BIOS password protection
 User and supervisor passwords
 Diskette drive write control
 Time-out variable in BIOS to trigger APM system-suspend mode
 Flash ROM write protection
 Diskette drive boot control
 Security hasp
 Hot key keyboard lockout
 SMART disk support

Preemptive Fault Management

Automatic remote and local alarming on all SMART devices supported via both remote DMI and local applications: SMART IDE drives (Windows® 95), thermal sensors, voltage sensors

Regulatory Certifications

UL-listed, CSA, TUV-GS, Australia (AS/NZS 3548), CE-Mark, FCC (class B), D-Mark (DEMKO), N-Mark (NEMKO), S-Mark (SEMKO), FIMKO (SETI), VCCI-2, Korean EMI, CISPR-22, CB (European), TCO'95, PC 97-compliant, U.S. Energy Star (low-profile models)

Software Preinstalled

Windows NT® Workstation 4.0 or Windows 95
 DIGITAL™ ClientWORKS™ (Desktop Management Interface [DMI] manageability software) (see Section C)
 Microsoft® Internet Explorer
 Adobe® Acrobat™ Reader
 Alta Vista Search My Computer pX
 System Readme
 On-line system and software documentation
 System-specific drivers
 System-specific utilities
 AMI Diagnostics (DOS-based)
 Power panel for Windows NT
 PC Care Diagnostics for Windows 95
 Desktop Wellness
 Z.A.K. (on backup CD)
 Power Management (NT)

Certified Operating Systems

Windows 95; Windows NT Workstation; Novell® NetWare® 386
 3.12, 4.11 (client)

Other Standard Features

Intel 440LX chipset
 PCI Bus Master EIDE with Ultra DMA/33 disk controllers
 Bus Master EIDE support for Mode 3 and 4 EIDE drives
 Voltage regulator module to support Pentium® II processor
 Slide-in, slide-out MLB
 One-thumbscrew enclosure (low-profile)
 Front reset button
 Windows 95 keyboard
 Three-button mouse

Other Specifications

Front panel indicators:
 Power, hard disk drive, diskette drive
 Front panel switches:
 Power, reset
 Operating temperature: 10°C to 40°C
 Storage temperature: -40°C to 66°C
 Operating humidity: 20% to 80%
 Storage humidity: 10% to 95%

Warranty

Three-year limited warranty

Configurations

All configurations include:

512KB secondary cache, integrated 64-bit graphics controller with 2MB SGRAM, integrated audio, 10Base-T/100Base-TX Ethernet controller

DIGITAL™ PC 5510 low-profile

233MHz Pentium® II processor, 32MB RAM, 2.1GB Ultra DMA hard disk drive, Windows NT® 4.0 preinstalled	FR-G2B2A-GB
233MHz Pentium II processor, 32MB RAM, 2.1GB Ultra DMA hard disk drive, Windows® 95 preinstalled	FR-G2B2A-EB
266MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, Windows NT 4.0 preinstalled	FR-G2B4A-GB
266MHz Pentium II processor, 32MB RAM, 2.1GB Ultra DMA hard disk drive, Windows 95 preinstalled	FR-G2B4A-EB
300MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, Windows NT 4.0 preinstalled	FR-G2B6A-GB

DIGITAL PC 5510 short-tower

233MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows NT 4.0 preinstalled	FR-G2B2A-VB
233MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows 95 preinstalled	FR-G2B2A-TB
266MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows NT 4.0 preinstalled	FR-G2B4A-VB
266MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows 95 preinstalled	FR-G2B4A-TB
300MHz Pentium II processor, 32MB RAM, 4GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows NT 4.0 preinstalled	FR-G2B6A-VB

Options

System Memory

16MB single-bank DIMM upgrade kit	FR-PCCAM-EB
32MB dual-bank DIMM upgrade kit	FR-PCCAM-EC
64MB single-bank DIMM upgrade kit	FR-PCCAM-ED
128MB dual-bank DIMM upgrade kit	FR-PCCAM-EE
32MB ECC DIMM upgrade kit	FR-MSP01-JB
64MB ECC DIMM upgrade kit	FR-MSP01-JC
128MB ECC DIMM upgrade kit	FR-MSP01-JD

Graphics Options and Upgrades

AGP graphics adapter	FR-PCXAG-BE
4MB SGRAM upgrade for AGP card or integrated graphics	FR-PBXGK-GA
2MB SGRAM upgrade for integrated graphics	FR-PBXGK-GB
Matrox MGA Millennium II	FR-PCXAG-BD
4MB WRAM upgrade for Matrox MGA Millennium II	FR-PCCAM-CC

Storage Devices

3.5" 1.44MB diskette drive	FR-PCXRJ-AD
2GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AR
3.2GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AS
4GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AU
6.4GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AV
2.0GB Ultra-Wide SCSI hard disk drive	FR-CDCAA-BA
4.0GB Ultra-Wide SCSI hard disk drive	FR-PCXRE-BA
4/8GB internal ATAPI tape drive	FR-PCXAT-DB
24x max. EIDE CD-ROM drive, 5.25"	FR-PCXRN-AM

SCSI Adapter

Adaptec PCI 2940UW Ultra-Wide host adapter	FR-PCTAZ-DE
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Network Interface Card

Ethernet PCI 10/100Mbps NIC	FR-DE500-BA
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Multimedia

24x CD-ROM drive, Creative Labs multimedia kit (includes Plug and Play sound card, headset with microphone, audio cable, installation disk)	FR-PCXBJ-DP
Speaker kit – 10 watt	FR-PCXJA-AH
Headset with microphone	FR-PCTAZ-DE

Monitors

DIGITAL PC 5000 Series PCs support all DIGITAL monitors. Refer to the Monitors section for part numbers

Keyboard

Windows 95 keyboard	FR-PCXLA-NA
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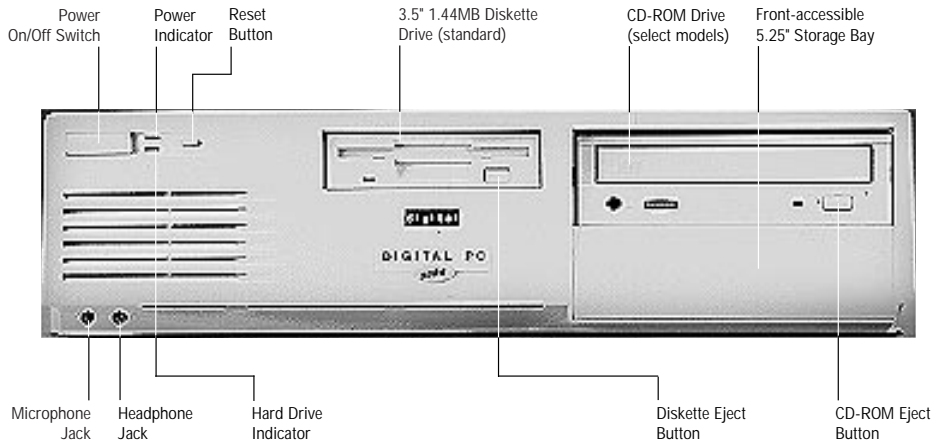
Mice

Logitech PS/2-style, two-button mouse	FR-PCXLN-AB
Logitech PS/2-style, three-button mouse	FR-PCXLN-AD

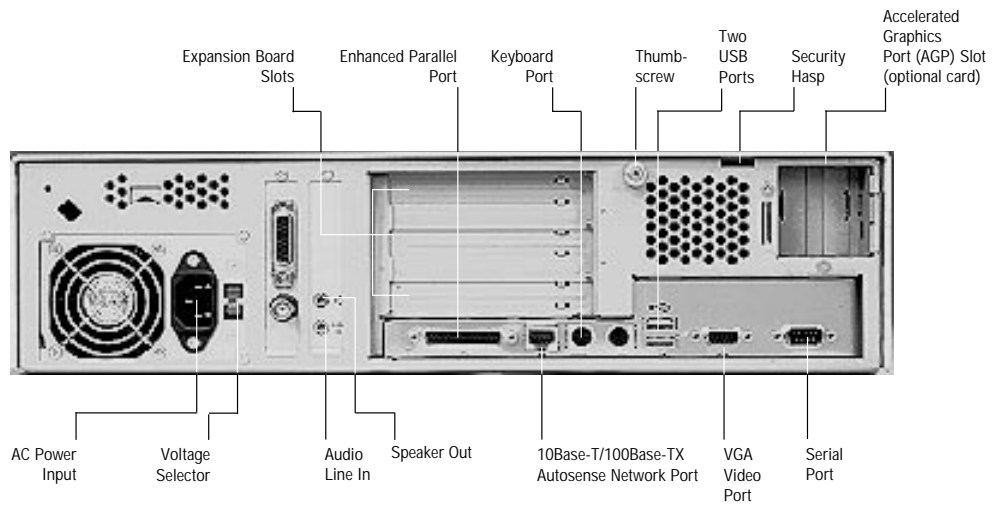
Modem

56Kbps internal data/fax modem	FR-PCXFA-AA
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Low-profile Enclosure

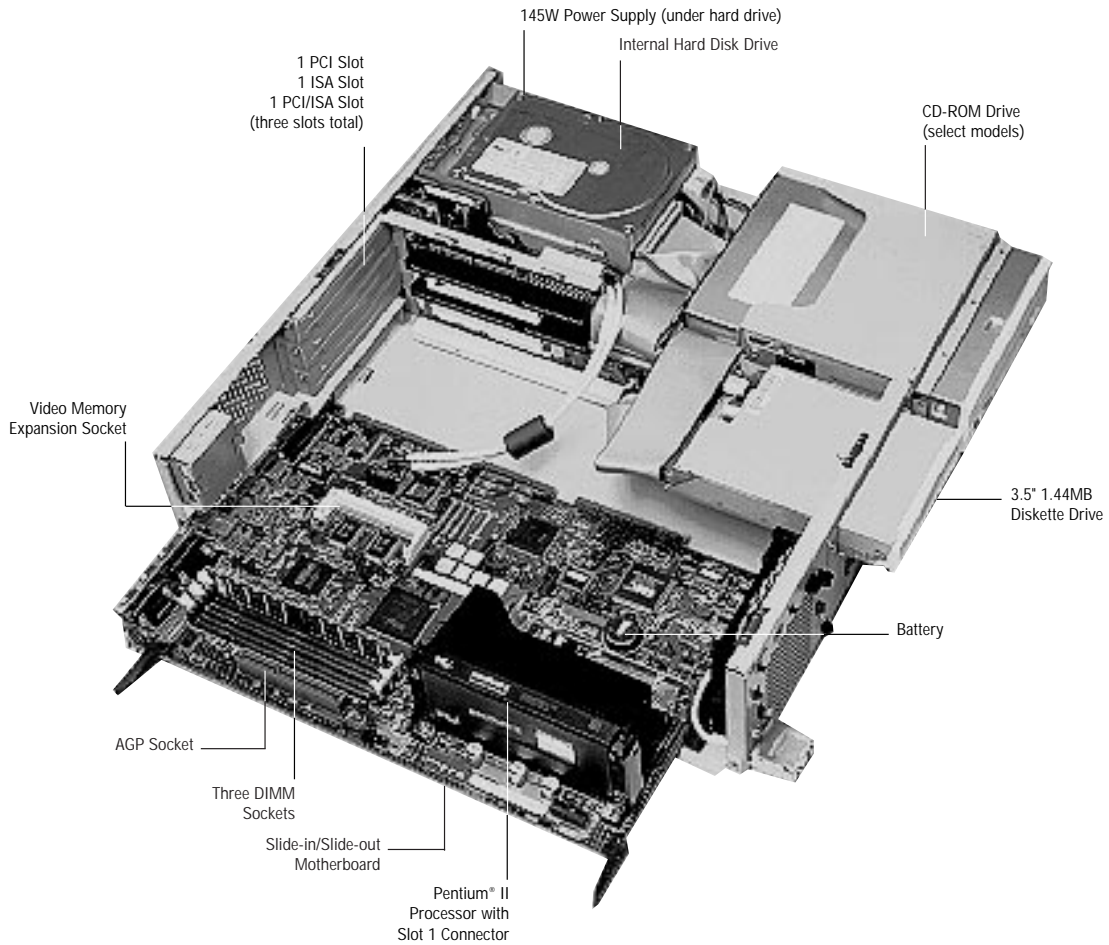


Front View

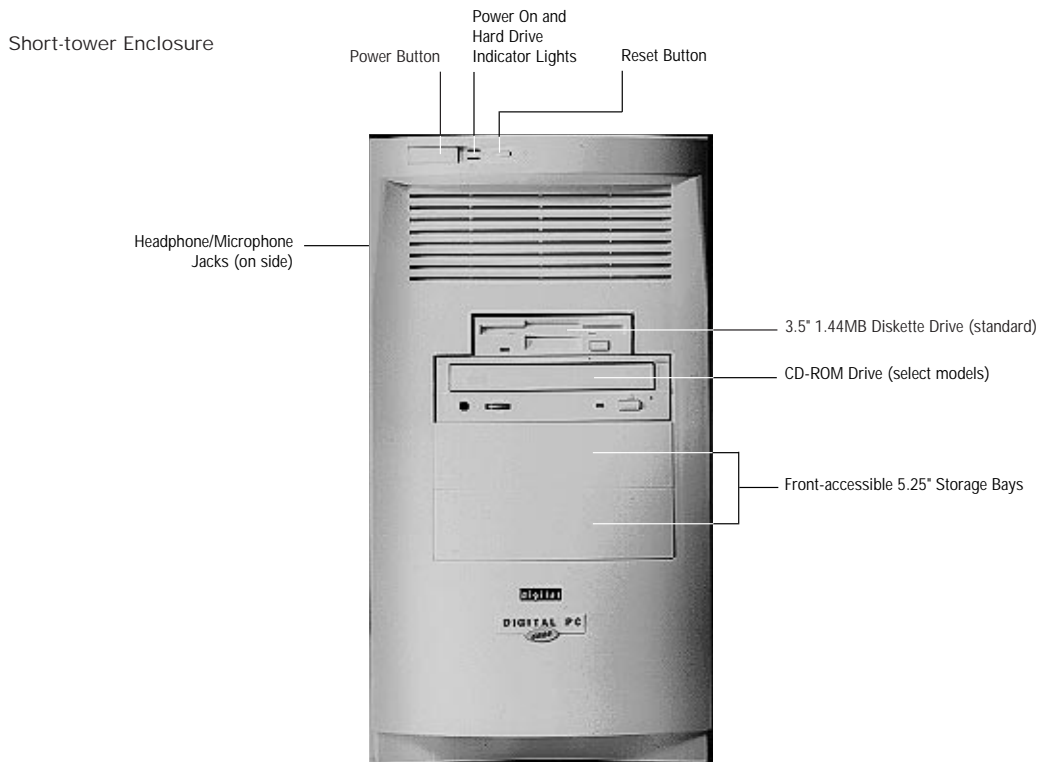


Back View

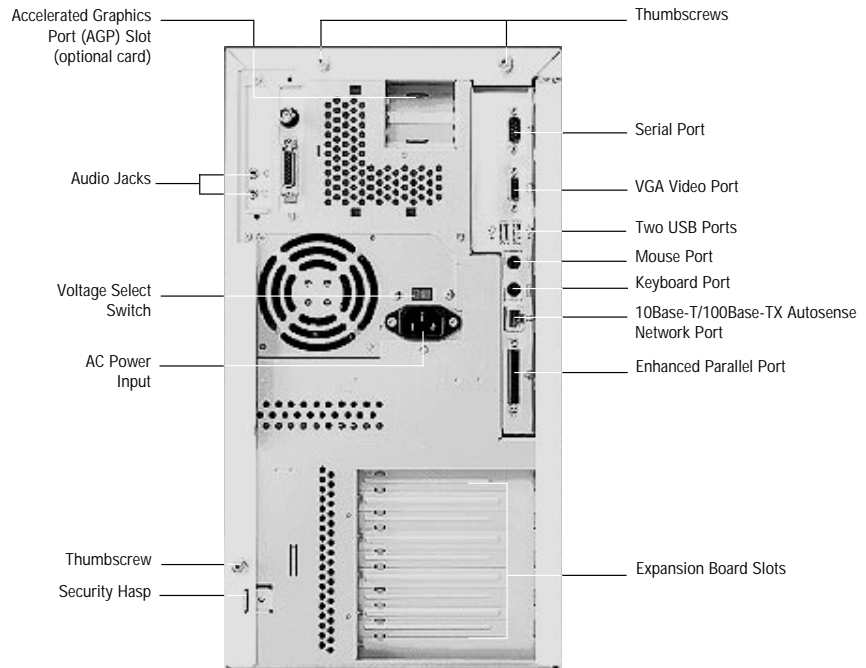
Low-profile Enclosure



Motherboard

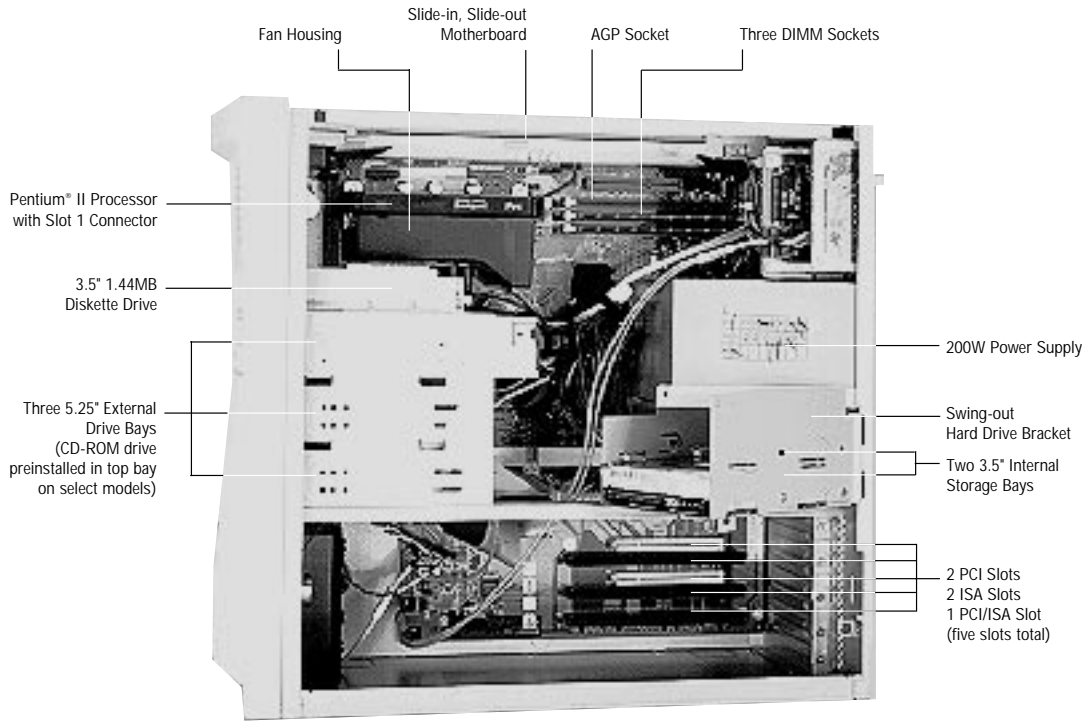


Front View

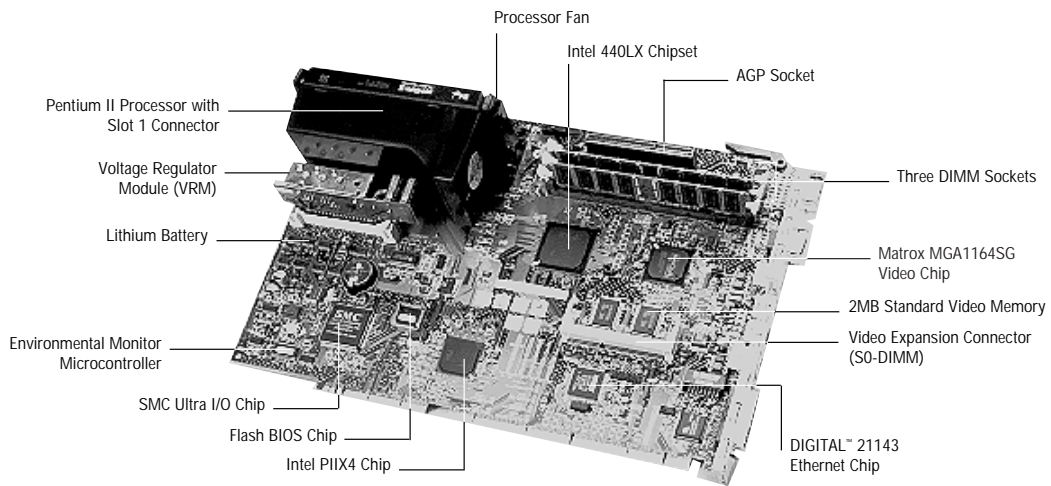


Back View

Short-tower Enclosure



Internal Side View



Motherboard

DIGITAL™ PC 5510
Memory Configurations

Total Memory	DIMM 0	DIMM 1	DIMM 2
16MB	16MB		
32MB	16MB	16MB	
32MB	32MB		
48MB	16MB	16MB	16MB
48MB	16MB	32MB	
64MB	64MB		
64MB	16MB	16MB	32MB
64MB	32MB	32MB	
80MB	16MB	64MB	
80MB	32MB	32MB	16MB
96MB	64MB	32MB	
96MB	32MB	32MB	32MB
112MB	64MB	32MB	16MB
128MB	128MB		
128MB	64MB	64MB	
128MB	64MB	32MB	32MB
144MB	128MB	16MB	
160MB	128MB	16MB	16MB
160MB	128MB	32MB	
176MB	128MB	32MB	16MB
192MB	64MB	64MB	64MB
192MB	128MB	64MB	
192MB	128MB	32MB	32MB
208MB	128MB	64MB	16MB
224MB	128MB	64MB	32MB
256MB	128MB	128MB	
272MB	128MB	128MB	16MB
288MB	128MB	128MB	32MB
320MB	128MB	128MB	64MB
384MB	128MB	128MB	128MB